

Appl. No. 09/730,547

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (Original) A method of performing remote notification of records each having a respective record identifier, the method comprising:

maintaining a record-user mapping which associates with each of a plurality of record identifiers a respective one or more user names;

for each record upon which remote notification is to be performed:

a) obtaining the record's record identifier's respective one or more user names from the record-user mapping;

b) for each user name in the record's record identifier's respective one or more user names obtaining from a user name-addressable entity mapping a respective addressable entity and sending a notification of the record to the addressable entity.

Claim 2. (Original) A method according to claim 1 further comprising maintaining the user name-addressable entity mapping from each user name to the respective addressable entity.

Claim 3. (Original) A method according to claim 2 wherein the user name-addressable entity mapping is a trusted mapping.

Claim 4. (Original) A method according to claim 1 adapted to perform remote notification of records generated by a certificate management system, wherein obtaining from a user name-addressable entity mapping a respective addressable entity comprises obtaining a respective addressable entity from a respective certificate stored in a repository of published certificates.

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Claim 5. (Original) A method according to claim 4 wherein the certificate management system comprises a PKI (Public Key Infrastructure).

Claim 6. (Original) A method according to claim 4 further comprising:

maintaining the repository of published certificates in which is stored for each of a plurality of user names the respective certificate in which is identified the respective addressable entity.

Claim 7. (Original) A method according to claim 1 wherein the addressable entity is an E-mail address.

Claim 8. (Original) A method according to claim 1 wherein each user name is a distinguished name in accordance with X.500.

Claim 9. (Original) A method according to claim 4 wherein the repository of published certificates is maintained in accordance with the X.500 series of recommendations.

Claim 10. (Original) A method according to claim 9 further comprising for each certificate storing the respective addressable entity in a certificate extension field of the certificate.

Claim 11. (Original) A method according to claim 10 wherein storing the respective addressable entity in a certificate extension field of the certificate comprises storing the respective addressable entity in a subject alternative name extension.

Claim 12. (Currently Amended) A method according to claim 4 further comprising obtaining a new set of records for processing ~~from time to time~~, and conducting steps a) and b) for each record in the new set of records.

Claim 13. (Original) A method according to claim 11 further comprising storing record reading parameters which determine circumstances under which the new set of records for processing is to be obtained, and obtaining the new set of records for processing in accordance with the record reading parameters.

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Claim 14. (Original) A method according to claim 1 further comprising protecting each notification message by encryption and/or digital signature.

Claim 15. (Original) A method according to claim 4 further comprising protecting each notification message by encryption and/or digital signature.

Claim 16. (Original) A method according to claim 4 further comprising verifying authenticity of the respective certificate before sending the notification to the addressable entity obtained from the respective certificate.

Claim 17. (Original) A method according to claim 1 further comprising maintaining an identification of a language of choice for each user name, before sending a notification to an addressable entity obtained for a particular user name, determining the particular user name's language of choice and including a translation of text in the notification message into the language of choice.

Claim 18. (Original) A method according to claim 1 further comprising:

identifying at least one record identifier for which target audit record processing is to be performed, the target audit record processing comprising:

for each record identifier for which target audit record processing is to be performed reading from the associated record a target user name, obtaining from the user name-addressable entity mapping a respective addressable entity for the target user name and sending a notification of the record to the addressable entity.

Claim 19. (Original) A method according to claim 4 further comprising:

identifying at least one record identifier for which target record processing is to be performed, the target audit record processing comprising:

for each record identifier for which target record processing is to be performed reading from the associated record a target user name, obtaining from the repository of published

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certificates a respective addressable entity for the target user name and sending a notification of the record to the addressable entity.

Claim 20. (Original) A method of performing remote notification of records each having a respective record identifier, the method comprising:

identifying at least one record identifier for which target record processing is to be performed, the target audit record processing comprising:

for each record identifier for which target record processing is to be performed reading from an associated record a target user name which identifies a user name which was a target of an operation which resulted in the record, obtaining from a user name-addressable entity mapping a respective addressable entity for the target user name and sending a notification of the record to the addressable entity.

Claim 21. (Original) A method according to claim 20 further comprising maintaining the user name-addressable entity mapping from each user name to the respective addressable entity.

Claim 22. (Original) A method according to claim 21 wherein the user name-addressable entity mapping is a trusted mapping.

Claim 23. (Original) A method according to claim 20 adapted to perform remote notification of records generated by a certificate management system, wherein obtaining from a user name-addressable entity mapping a respective addressable entity comprises obtaining the respective addressable entity from a respective certificate stored in a repository of published certificates.

Claim 24. (Original) A method according to claim 21 wherein the certificate management system comprises a PKI (Public Key Infrastructure).

Claim 25. (Original) A method according to claim 23 further comprising:

collecting a set of records generated by the certificate management system.

Claim 26. (Original) A method according to claim 23 further comprising:

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maintaining a repository of published certificates in which is stored for each of a plurality of user names a respective certificate in which is identified a respective addressable entity.

Claim 27. (Original) A method according to claim 23 wherein the addressable entity is an E-mail address.

Claim 28. (Original) A method according to claim 23 wherein each user name is a distinguished name in accordance with X.500.

Claim 29. (Original) A method according to claim 23 wherein the repository of published certificates is maintained in accordance with the X.500 series of recommendations and further comprising for each certificate storing the respective addressable entity in a certificate extension of the certificate.

Claim 30. (Original) A method according to claim 29 wherein storing the respective addressable entity in a certificate extension of the certificate comprises storing the respective addressable entity in a subject alternative name extension.

Claim 31. (Currently Amended) A method according to claim 23 further comprising obtaining a new set of records for processing ~~from time to time~~.

Claim 32. (Original) A method according to claim 31 further comprising storing record reading parameters which determine circumstances under which the new set of records for processing is to be obtained, and obtaining the new set of records for processing in accordance with the record reading parameters.

Claim 33. (Original) A method according to claim 20 further comprising protecting each notification message by encryption and/or digital signature.

Claim 34. (Original) A method according to claim 20 further comprising protecting each notification message by encryption and/or digital signature.

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Claim 35. (Original) A method according to claim 23 further comprising verifying authenticity of the respective certificate before sending the notification to the addressable entity obtained from the respective certificate.

Claim 36. (Original) A method according to claim 20 further comprising maintaining an identification of a language of choice for each user name, before sending a notification to an addressable entity obtained for a particular user name, determining the particular user name's language of choice and including a translation of text in the notification message into the language of choice.

Claim 37. (Original) An apparatus comprising:

a record-user mapping memory structure which associates for each of a plurality of record identifiers a respective one or more user names;

a receiving interface for receiving a set of records to be processed for remote notification, each record having a respective record identifier;

a notification interface adapted to send messages to addressable entities;

a record processing entity adapted to process the set of records by obtaining the record's record identifier's respective one or more user names from the record-user mapping, and for each user name in the record's record identifier's respective one or more user names obtaining from a user name-addressable entity mapping a respective addressable entity and sending a notification of the record to the addressable entity through the notification interface.

Claim 38. (Original) An apparatus according to claim 37 in combination with the user name-addressable entity mapping from each user name to the respective addressable entity.

Claim 39. (Original) An apparatus according to claim 37 adapted to perform remote notification of records generated by a certificate management system, wherein the user name-addressable entity mapping is part of a repository of published certificates, and wherein the record processing entity is adapted to obtain the respective addressable entity from a respective certificate stored in the repository of published certificates.

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Claim 40. (Original) An apparatus according to claim 39 wherein the certificate management system comprises a PKI (public key infrastructure).

Claim 41. (Original) An apparatus according to claim 39 in combination with the repository of published certificates.

Claim 42. (Original) An apparatus according to claim 39 wherein the addressable entity is an E-mail address, and the notification interface is an E-mail message sending component.

Claim 43. (Currently Amended) An apparatus according to claim 39 further comprising a configuration file adapted to store record reading parameters, wherein the apparatus is adapted to collect through the record receiving interface a new set of records for processing ~~from time to time~~.

Claim 44. (Original) An apparatus according to claim 37 further comprising:

a target record memory structure adapted to contain an identification of at least one record identifier for which target record processing is to be performed;

wherein the record processing entity is further adapted to process each record identifier for which target record name processing is to be performed by reading from the associated record a target user name, obtaining from the user name-addressable entity mapping a respective addressable entity for the target user name and sending a notification of the record to the addressable entity.

Claim 45. (Original) An apparatus according to claim 39 further comprising:

a target record memory structure adapted to contain an identification of at least one record identifier for which target record processing is to be performed;

wherein the record processing entity is further adapted to process each record identifier for which target record processing is to be performed by reading from the associated record a target user name, obtaining from the repository of published certificates a respective

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addressable entity for the target user name and sending a notification of the record to the addressable entity.

Claim 46. (Original) An apparatus comprising:

a receiving interface for receiving a set of records to be processed for remote notification, each record having a respective record identifier;

a notification interface adapted to send messages to addressable entities;

a target record memory structure adapted to contain an identification of at least one record identifier for which target record processing is to be performed;

a record processing entity adapted to process each record in the set of records having a record identifier for which target record name processing is to be performed by reading from the record a target user name, obtaining from a user name-addressable entity mapping a respective addressable entity for the target user name and sending a notification of the record to the addressable entity.

Claim 47. (Original) An apparatus according to claim 46 wherein the user-name addressable entity mapping comprises a repository of published certificates which contains for each user name a respective addressable entity.

Claim 48. (Original) An apparatus according to claim 47 in combination with the user name-addressable entity mapping from each user name to the respective addressable entity.

Claim 49. (Original) An apparatus according to claim 47 adapted to perform remote notification of records generated by a certificate management system.

Claim 50. (Original) An apparatus according to claim 49 wherein the certificate management system comprises a PKI (Public Key Infrastructure).

Claim 51. (Original) An apparatus according to claim 47 wherein the addressable entity is an E-mail address, and the notification interface is an E-mail message sending component.

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Claim 52. (Currently Amended) An apparatus according to claim 47 further comprising a configuration file adapted to store record reading parameters, wherein the apparatus is adapted to collect through the record receiving interface a new set of records for processing ~~from time to time~~ in accordance with the record reading parameters.

Claim 53. (Original) A computer readable medium having instructions stored thereon for instructing a processing platform to implement a method according to claim 1.

Claim 54. (Original) A computer readable medium having instructions stored thereon for instructing a processing platform to implement a method according to claim 4.

Claim 55. (Original) A computer readable medium having instructions stored thereon for instructing a processing platform to implement a method according to claim 20.